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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI MFZ-KA35VA. You'll find the answers to all your questions on the MITSUBISHI MFZ-KA35VA in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI MFZ-KA35VA  
User guide MITSUBISHI MFZ-KA35VA  
Operating instructions MITSUBISHI MFZ-KA35VA  
Instructions for use MITSUBISHI MFZ-KA35VA  
Instruction manual MITSUBISHI MFZ-KA35VA



Changes for the Better

FLOOR-TYPE, HEAT PUMP AIR CONDITIONERS

No. OB409

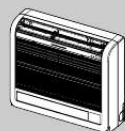
## SERVICE MANUAL

Wireless type  
Models

MFZ-KA25VA - [E]

MFZ-KA35VA - [E]

MFZ-KA50VA - [E]



Indication of model name  
MFZ-KA25VA - [E]  
MFZ-KA35VA - [E]  
MFZ-KA50VA - [E]

**NOTE:**  
This service manual describes technical data of the indoor units.  
\*As for outdoor units SLZ-KA25VA, TH, SLZ-KA35VA, TH, SLZ-KA25VAH, TH, SLZ-KA35VAH, TH and SLZ-KA50VA, TH refer to service manual OC302.  
\*As for outdoor units MXZ-SA54VA, [E], MXZ-4A71VA, [E] and MXZ-4A50VA, [E] refer to service manual OIB77.  
\*As for outdoor unit MXZ-6A140VA, refer to service manual OC318.

### CONTENTS

1. PART NAMES AND FUNCTIONS .....	2
2. SPECIFICATION .....	4
3. NOISE CRITERIA CURVES .....	6
4. OUTLINES AND DIMENSIONS .....	7
5. WIRING DIAGRAM .....	8
6. REFRIGERANT SYSTEM DIAGRAM .....	8
7. PERFORMANCE CURVES .....	9
8. SERVICE FUNCTIONS .....	19
9. TROUBLESHOOTING .....	21
10. DISASSEMBLY INSTRUCTIONS .....	35
11. PARTS LIST .....	39
12. OPTIONAL PARTS .....	43



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45 1.24 0.36 557 31 18 2.94 2.59 0.88 464 31 20 3.06 2.33 0.76 487 31 22 3.19 2.  
04 0.64 505 31 24 3.35 1.74 0.52 528 31 26 3.  
45 1.38 0.40 557 32 18 2.94 2.70 0.  
92 464 32 20 3.06 2.45 0.80 487 32 22 3.19 2.17 0.68 505 32 24 3.35 1.88 0.56 528 32 26 3.

45 1.52 0.44 557 NOTE Q : Total capacity (kW) SHC : Sensible heat capacity (kW) OUTDOOR DB(:) 25 27 30 Q SHC SHF INPUT Q SHC SHF INPUT Q  
SHC SHF INPUT 2.81 1.35 0.48 487 2.70 1.30 0.48 510 2.60 1.  
25 0.48 534 2.94 1.06 0.36 516 2.  
85 1.03 0.36 528 2.75 0.99 0.  
36 551 2.



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81 1.46 0.52 487 2.70 1.40 0.52 510 2.60 1.35 0.52 534 2.  
94 1.18 0.40 516 2.85 1.14 0.40 528 2.75 1.10 0.40 551 3.08 0.  
86 0.28 537 3.00 0.84 0.28 551 2.  
88 0.81 0.28 574 2.81 1.58 0.  
56 487 2.70 1.51 0.56 510 2.60 1.46 0.56 534 2.94 1.29 0.44 516 2.  
85 1.25 0.44 528 2.75 1.21 0.44 551 3.08 0.98 0.32 537 3.00 0.  
96 0.32 551 2.88 0.92 0.32 574 2.  
81 1.69 0.60 487 2.70 1.62 0.  
60 510 2.60 1.56 0.60 534 2.94 1.41 0.48 516 2.85 1.37 0.48 528 2.  
75 1.32 0.48 551 3.08 1.11 0.36 537 3.00 1.08 0.36 551 2.88 1.  
04 0.36 574 3.23 0.77 0.24 557 3.  
15 0.76 0.24 574 3.05 0.73 0.  
24 603 2.81 1.80 0.64 487 2.70 1.73 0.64 510 2.60 1.66 0.64 534 2.  
94 1.53 0.52 516 2.85 1.48 0.52 528 2.75 1.43 0.52 551 3.08 1.  
23 0.40 537 3.00 1.20 0.40 551 2.  
88 1.15 0.40 574 3.23 0.90 0.  
28 557 3.15 0.88 0.28 574 3.05 0.85 0.28 603 2.81 1.91 0.68 487 2.  
70 1.84 0.68 510 2.60 1.77 0.68 534 2.94 1.65 0.56 516 2.85 1.  
60 0.56 528 2.75 1.54 0.56 551 3.  
08 1.35 0.44 537 3.00 1.32 0.  
44 551 2.88 1.27 0.44 574 3.23 1.03 0.32 557 3.15 1.01 0.32 574 3.  
05 0.98 0.32 603 3.35 0.67 0.20 586 3.30 0.66 0.20 603 3.20 0.  
64 0.20 621 2.81 2.03 0.72 487 2.  
70 1.94 0.72 510 2.60 1.87 0.  
72 534 2.94 1.76 0.60 516 2.85 1.71 0.60 528 2.75 1.65 0.60 551 3.  
08 1.48 0.48 537 3.00 1.44 0.48 551 2.88 1.38 0.48 574 3.23 1.  
16 0.36 557 3.15 1.13 0.36 574 3.  
05 1.10 0.36 603 3.35 0.80 0.  
24 586 3.30 0.79 0.24 603 3.20 0.77 0.24 621 2.81 2.14 0.76 487 2.  
70 2.05 0.76 510 2.60 1.98 0.76 534 2.94 1.88 0.64 516 2.85 1.  
82 0.64 528 2.75 1.76 0.64 551 3.  
08 1.60 0.52 537 3.00 1.56 0.  
52 551 2.88 1.50 0.52 574 3.23 1.29 0.40 557 3.15 1.26 0.40 574 3.  
05 1.22 0.40 603 3.35 0.94 0.28 586 3.30 0.92 0.28 603 3.20 0.  
90 0.28 621 2.81 2.25 0.80 487 2.  
70 2.16 0.80 510 2.60 2.08 0.  
80 534 2.94 2.00 0.68 516 2.85 1.94 0.68 528 2.75 1.87 0.68 551 3.  
08 1.72 0.56 537 3.00 1.68 0.56 551 2.88 1.61 0.56 574 3.23 1.  
42 0.44 557 3.15 1.39 0.44 574 3.  
05 1.34 0.44 603 3.35 1.07 0.  
32 586 3.30 1.06 0.32 603 3.20 1.02 0.32 621 2.81 2.36 0.84 487 2.  
70 2.27 0.84 510 2.60 2.18 0.84 534 2.94 2.12 0.72 516 2.85 2.  
05 0.72 528 2.75 1.98 0.72 551 3.  
08 1.85 0.60 537 3.00 1.80 0.  
60 551 2.88 1.73 0.60 574 3.23 1.55 0.48 557 3.15 1.51 0.48 574 3.  
05 1.46 0.48 603 3.35 1.21 0.36 586 3.30 1.19 0.36 603 3.20 1.  
15 0.36 621 2.81 2.48 0.88 487 2.  
70 2.38 0.88 510 2.60 2.29 0.  
88 534 2.94 2.23 0.76 516 2.85 2.17 0.76 528 2.75 2.09 0.76 551 3.  
08 1.97 0.64 537 3.00 1.92 0.64 551 2.88 1.84 0.64 574 3.23 1.  
68 0.52 557 3.15 1.64 0.52 574 3.  
05 1.59 0.52 603 3.35 1.34 0.  
40 586 3.30 1.32 0.40 603 3.20 1.28 0.40 621 2.81 2.59 0.92 487 2.

70 2.48 0.92 510 2.60 2.39 0.92 534 2.94 2.35 0.80 516 2.85 2.  
28 0.80 528 2.75 2.20 0.80 551 3.  
08 2.09 0.68 537 3.00 2.04 0.  
68 551 2.88 1.96 0.68 574 3.23 1.81 0.56 557 3.15 1.76 0.56 574 3.

05 1.71 0.56 603 3.35 1.47 0.44 586 3.30 1.45 0.44 603 3.20 1.

41 0.44 621 SHF : Sensible heat factor DB : Dry-bulb temperature INPUT : Total power input (W) WB : Wet-bulb temperature 12 PERFORMANCE DATA  
COOLING operation Rated frequency 57Hz MFZ-KA25VA - E1 / SUZ-KA25VA.TH, SUZ-KA25VAH.TH CAPACITY : 2.5(kW) SHF : 0.  
66 INPUT : 580(W) OUTDOOR DB(:) 35 40 INDOOR INDOOR DB (: ) WB (: ) Q SHC SHF INPUT Q SHC SHF INPUT Q 21 18 2.45 1.18 0.48 568 2.25 1.  
08 0.48 603 2.08 21 20 2.58 0.93 0.36 592 2.40 0.86 0.36 621 2.23 22 18 2.

45 1.27 0.52 568 2.25 1.17 0.52 603 2.08 22 20 2.58 1.03 0.40 592 2.  
40 0.96 0.40 621 2.23 22 22 2.73 0.  
76 0.28 615 2.55 0.71 0.28 650 2.  
38 23 18 2.45 1.37 0.56 568 2.25 1.26 0.56 603 2.08 23 20 2.58 1.13 0.

44 592 2.40 1.06 0.44 621 2.23 23 22 2.73 0.87 0.32 615 2.55 0.82 0.  
32 650 2.38 24 18 2.45 1.47 0.60 568 2.  
25 1.35 0.60 603 2.08 24 20 2.58 1.  
24 0.48 592 2.40 1.15 0.48 621 2.23 24 22 2.73 0.98 0.36 615 2.55 0.

92 0.36 650 2.38 24 24 2.88 0.69 0.24 638 2.70 0.65 0.24 667 2.55 25 18 2.  
45 1.57 0.64 568 2.25 1.44 0.  
64 603 2.08 25 20 2.58 1.34 0.52 592 2.  
40 1.25 0.52 621 2.23 25 22 2.73 1.09 0.40 615 2.55 1.02 0.40 650 2.

38 25 24 2.88 0.81 0.28 638 2.70 0.76 0.28 667 2.55 26 18 2.45 1.67 0.  
68 568 2.25 1.53 0.68 603 2.08 26 20 2.  
58 1.44 0.56 592 2.40 1.34 0.  
56 621 2.23 26 22 2.73 1.20 0.44 615 2.55 1.12 0.44 650 2.38 26 24 2.88 0.

92 0.32 638 2.70 0.86 0.32 667 2.55 26 26 3.03 0.61 0.20 661 2.85 0.  
57 0.20 690 2.68 27 18 2.45 1.76 0.  
72 568 2.25 1.62 0.72 603 2.08 27 20 2.  
58 1.55 0.60 592 2.40 1.44 0.60 621 2.23 27 22 2.73 1.31 0.48 615 2.

55 1.22 0.48 650 2.38 27 24 2.88 1.04 0.36 638 2.70 0.97 0.36 667 2.  
55 27 26 3.03 0.73 0.24 661 2.85 0.  
68 0.24 690 2.68 28 18 2.45 1.86 0.  
76 568 2.25 1.71 0.76 603 2.08 28 20 2.58 1.65 0.64 592 2.40 1.54 0.

64 621 2.23 28 22 2.73 1.42 0.52 615 2.55 1.33 0.52 650 2.38 28 24 2.88 1.  
15 0.40 638 2.70 1.08 0.40 667 2.  
55 28 26 3.03 0.85 0.28 661 2.85 0.  
80 0.28 690 2.68 29 18 2.45 1.96 0.80 568 2.25 1.80 0.80 603 2.08 29 20 2.

58 1.75 0.68 592 2.40 1.63 0.68 621 2.23 29 22 2.73 1.53 0.56 615 2.  
55 1.43 0.56 650 2.38 29 24 2.88 1.  
27 0.44 638 2.70 1.19 0.44 667 2.  
55 29 26 3.03 0.97 0.32 661 2.85 0.91 0.32 690 2.68 30 18 2.45 2.06 0.

84 568 2.25 1.89 0.84 603 2.08 30 20 2.58 1.85 0.72 592 2.40 1.73 0.  
72 621 2.23 30 22 2.73 1.64 0.60 615 2.  
55 1.53 0.60 650 2.38 30 24 2.88 1.  
38 0.48 638 2.70 1.30 0.48 667 2.55 30 26 3.03 1.09 0.36 661 2.85 1.

03 0.36 690 2.68 31 18 2.45 2.16 0.88 568 2.25 1.98 0.88 603 2.08 31 20 2.  
58 1.96 0.76 592 2.40 1.82 0.  
76 621 2.23 31 22 2.73 1.74 0.64 615 2.  
55 1.63 0.64 650 2.38 31 24 2.88 1.50 0.52 638 2.70 1.40 0.52 667 2.

55 31 26 3.03 1.21 0.40 661 2.85 1.14 0.40 690 2.68 32 18 2.45 2.25 0.  
92 568 2.25 2.07 0.92 603 2.08 32 20 2.  
58 2.06 0.80 592 2.40 1.92 0.  
80 621 2.23 32 22 2.73 1.85 0.68 615 2.55 1.73 0.68 650 2.38 32 24 2.88 1.

61 0.56 638 2.70 1.51 0.56 667 2.55 32 26 3.03 1.33 0.44 661 2.85 1.

25 0.44 690 2.68 NOTE Q : Total capacity (kW) SHF : Sensible heat factor SHC : Sensible heat capacity (kW) INPUT : Total power input (W) 13 46 SHC  
 SHF INPUT 1.00 0.48 626 0.  
 80 0.36 655 1.08 0.52 626 0.89 0.  
 40 655 0.67 0.28 673 1.16 0.56 626 0.98 0.44 655 0.76 0.32 673 1.25 0.  
 60 626 1.07 0.48 655 0.86 0.36 673 0.61 0.24 696 1.33 0.64 626 1.16 0.  
 52 655 0.95 0.40 673 0.71 0.28 696 1.  
 41 0.68 626 1.25 0.56 655 1.05 0.  
 44 673 0.82 0.32 696 0.54 0.20 719 1.49 0.72 626 1.34 0.60 655 1.14 0.  
 48 673 0.92 0.36 696 0.64 0.24 719 1.58 0.76 626 1.42 0.64 655 1.24 0.  
 52 673 1.02 0.40 696 0.75 0.28 719 1.  
 66 0.80 626 1.51 0.68 655 1.33 0.  
 56 673 1.12 0.44 696 0.86 0.32 719 1.74 0.84 626 1.60 0.72 655 1.43 0.  
 60 673 1.22 0.48 696 0.96 0.36 719 1.83 0.88 626 1.69 0.76 655 1.52 0.  
 64 673 1.33 0.52 696 1.07 0.40 719 1.  
 91 0.92 626 1.78 0.80 655 1.62 0.  
 68 673 1.43 0.56 696 1.18 0.44 719 DB : Dry-bulb temperature WB : Wet-bulb temperature PERFORMANCE DATA COOLING operation Rated frequency  
 77Hz MFZ-KA35VA - E1 / SUZ-KA35VA.TH, SUZ-KA35VAH.TH CAPACITY : 3.5(kW) SHF : 0.65 INPUT : 1090(W) INDOOR INDOOR DB(:) WB(:) 21 21  
 22 22 22 23 23 23 24 24 24 24 25 25 25 25 26 26 26 26 26 27 27 27 28 28 28 28 28 29 29 29 29 29 30 30 30 30 31 31 31 31 31 32 32 32 32  
 NOTE 21 Q SHC SHF INPUT 18 4.11 1.

93 0.47 872 20 4.29 1.50 0.35 916 18 4.11 2.10 0.51 872 20 4.29 1.67 0.  
 39 916 22 4.46 1.20 0.27 948 18 4.11 2.  
 26 0.55 872 20 4.29 1.84 0.43 916 22 4.  
 46 1.38 0.31 948 18 4.11 2.43 0.59 872 20 4.29 2.02 0.47 916 22 4.46 1.  
 56 0.35 948 24 4.69 1.08 0.23 992 18 4.11 2.59 0.63 872 20 4.29 2.19 0.  
 51 916 22 4.46 1.74 0.39 948 24 4.69 1.  
 27 0.27 992 18 4.11 2.76 0.67 872 20 4.  
 29 2.36 0.55 916 22 4.46 1.92 0.43 948 24 4.69 1.45 0.31 992 26 4.83 0.  
 92 0.19 1046 18 4.11 2.92 0.71 872 20 4.29 2.53 0.59 916 22 4.46 2.10 0.  
 47 948 24 4.69 1.64 0.35 992 26 4.83 1.  
 11 0.23 1046 18 4.11 3.08 0.75 872 20 4.  
 29 2.70 0.63 916 22 4.46 2.28 0.51 948 24 4.69 1.83 0.39 992 26 4.83 1.  
 30 0.27 1046 18 4.11 3.25 0.79 872 20 4.29 2.87 0.67 916 22 4.46 2.45 0.  
 55 948 24 4.69 2.02 0.43 992 26 4.83 1.  
 50 0.31 1046 18 4.11 3.41 0.83 872 20 4.  
 29 3.04 0.71 916 22 4.46 2.63 0.59 948 24 4.69 2.20 0.47 992 26 4.83 1.  
 69 0.35 1046 18 4.11 3.58 0.87 872 20 4.29 3.22 0.75 916 22 4.46 2.81 0.  
 63 948 24 4.69 2.39 0.51 992 26 4.83 1.  
 88 0.39 1046 18 4.11 3.74 0.91 872 20 4.  
 29 3.39 0.79 916 22 4.46 2.99 0.67 948 24 4.69 2.58 0.55 992 26 4.83 2.

08 0.43 1046 Q : Total capacity (kW) SHC : Sensible heat capacity (kW) OUTDOOR DB(:) 25 27 30 Q SHC SHF INPUT Q SHC SHF INPUT Q SHC SHF  
 INPUT 3.



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94 1.85 0.47 916 3.78 1.78 0.47 959 3.64 1.71 0.  
47 1003 4.11 1.44 0.35 970 3.99 1.  
40 0.35 992 3.85 1.35 0.35 1036 3.  
94 2.01 0.51 916 3.78 1.93 0.51 959 3.64 1.86 0.51 1003 4.11 1.  
  
60 0.39 970 3.99 1.56 0.39 992 3.85 1.50 0.39 1036 4.31 1.16 0.  
27 1008 4.20 1.13 0.27 1036 4.03 1.  
09 0.27 1079 3.94 2.17 0.55 916 3.  
78 2.08 0.55 959 3.64 2.00 0.55 1003 4.11 1.77 0.43 970 3.99 1.  
  
72 0.43 992 3.85 1.66 0.43 1036 4.31 1.33 0.31 1008 4.20 1.30 0.  
31 1036 4.03 1.25 0.31 1079 3.94 2.  
32 0.59 916 3.78 2.23 0.59 959 3.  
64 2.15 0.59 1003 4.11 1.93 0.47 970 3.99 1.88 0.47 992 3.85 1.  
  
81 0.47 1036 4.31 1.51 0.35 1008 4.20 1.47 0.35 1036 4.03 1.41 0.  
35 1079 4.52 1.04 0.23 1046 4.41 1.  
01 0.23 1079 4.27 0.98 0.23 1134 3.  
94 2.48 0.63 916 3.78 2.38 0.63 959 3.64 2.29 0.63 1003 4.11 2.  
  
10 0.51 970 3.99 2.03 0.51 992 3.85 1.96 0.51 1036 4.31 1.68 0.  
39 1008 4.20 1.64 0.39 1036 4.03 1.  
57 0.39 1079 4.52 1.22 0.27 1046 4.  
41 1.19 0.27 1079 4.27 1.15 0.27 1134 3.94 2.64 0.67 916 3.78 2.  
  
53 0.67 959 3.64 2.44 0.67 1003 4.11 2.26 0.55 970 3.99 2.19 0.  
55 992 3.85 2.12 0.55 1036 4.31 1.  
85 0.43 1008 4.20 1.81 0.43 1036 4.  
03 1.73 0.43 1079 4.52 1.40 0.31 1046 4.41 1.37 0.31 1079 4.27 1.  
  
32 0.31 1134 4.69 0.89 0.19 1101 4.62 0.88 0.19 1134 4.48 0.85 0.  
19 1166 3.94 2.80 0.71 916 3.78 2.  
68 0.71 959 3.64 2.58 0.71 1003 4.  
11 2.43 0.59 970 3.99 2.35 0.59 992 3.85 2.27 0.59 1036 4.31 2.  
  
02 0.47 1008 4.20 1.97 0.47 1036 4.03 1.89 0.47 1079 4.52 1.58 0.  
35 1046 4.41 1.54 0.35 1079 4.27 1.  
49 0.35 1134 4.69 1.08 0.23 1101 4.  
62 1.06 0.23 1134 4.48 1.03 0.23 1166 3.94 2.95 0.75 916 3.78 2.  
  
84 0.75 959 3.64 2.73 0.75 1003 4.11 2.59 0.63 970 3.99 2.51 0.  
63 992 3.85 2.43 0.63 1036 4.31 2.  
20 0.51 1008 4.20 2.14 0.51 1036 4.  
03 2.05 0.51 1079 4.52 1.76 0.39 1046 4.41 1.72 0.39 1079 4.27 1.  
  
67 0.39 1134 4.69 1.27 0.27 1101 4.62 1.25 0.27 1134 4.48 1.21 0.  
27 1166 3.94 3.11 0.79 916 3.78 2.  
99 0.79 959 3.64 2.88 0.79 1003 4.  
11 2.76 0.67 970 3.99 2.67 0.67 992 3.85 2.58 0.67 1036 4.31 2.  
  
37 0.55 1008 4.20 2.31 0.55 1036 4.03 2.21 0.55 1079 4.52 1.94 0.  
43 1046 4.41 1.90 0.43 1079 4.27 1.  
84 0.43 1134 4.69 1.45 0.31 1101 4.  
62 1.43 0.31 1134 4.48 1.39 0.31 1166 3.94 3.27 0.83 916 3.78 3.  
  
14 0.83 959 3.64 3.02 0.83 1003 4.11 2.92 0.71 970 3.99 2.83 0.  
71 992 3.85 2.73 0.71 1036 4.31 2.  
54 0.59 1008 4.20 2.48 0.59 1036 4.  
03 2.37 0.59 1079 4.52 2.12 0.47 1046 4.41 2.07 0.47 1079 4.27 2.  
  
01 0.47 1134 4.69 1.64 0.35 1101 4.62 1.62 0.35 1134 4.48 1.57 0.  
35 1166 3.94 3.43 0.87 916 3.78 3.  
29 0.87 959 3.64 3.17 0.87 1003 4.  
11 3.08 0.75 970 3.99 2.99 0.75 992 3.85 2.89 0.75 1036 4.31 2.  
  
71 0.63 1008 4.20 2.65 0.63 1036 4.03 2.54 0.63 1079 4.52 2.30 0.  
51 1046 4.41 2.25 0.51 1079 4.27 2.



18 0.51 1134 4.69 1.83 0.39 1101 4.  
62 1.80 0.39 1134 4.48 1.75 0.39 1166 3.94 3.58 0.91 916 3.78 3.

44 0.91 959 3.64 3.31 0.91 1003 4.11 3.25 0.79 970 3.99 3.15 0.  
79 992 3.85 3.04 0.79 1036 4.31 2.  
88 0.67 1008 4.20 2.81 0.67 1036 4.  
03 2.70 0.67 1079 4.52 2.48 0.55 1046 4.41 2.43 0.55 1079 4.27 2.

35 0.55 1134 4.69 2.02 0.43 1101 4.62 1.99 0.43 1134 4.48 1.93 0.

43 1166 SHF : Sensible heat factor DB : Dry-bulb temperature INPUT : Total power input (W) WB : Wet-bulb temperature 14 PERFORMANCE DATA  
COOLING operation Rated frequency 77Hz MFZ-KA35VA - E1 / SUZ-KA35VA.TH, SUZ-KA35VAH.TH CAPACITY : 3.5(kW) SHF : 0.65 INPUT : 1090(W)  
OUTDOOR DB(:) 35 40 INDOOR INDOOR DB (: ) WB (: ) Q SHC SHF INPUT Q SHC SHF INPUT Q 21 18 3.

43 1.61 0.47 1068 3.15 1.48 0.  
47 1134 2.91 21 20 3.61 1.26 0.35 1112 3.36 1.18 0.35 1166 3.12 22 18 3.43 1.

75 0.51 1068 3.15 1.61 0.51 1134 2.91 22 20 3.61 1.41 0.39 1112 3.36 1.  
31 0.39 1166 3.12 22 22 3.82 1.03 0.  
27 1155 3.57 0.96 0.27 1221 3.33 23 18 3.

43 1.89 0.55 1068 3.15 1.73 0.55 1134 2.91 23 20 3.61 1.55 0.43 1112 3.

36 1.44 0.43 1166 3.12 23 22 3.82 1.18 0.31 1155 3.57 1.11 0.31 1221 3.  
33 24 18 3.43 2.02 0.59 1068 3.15 1.  
86 0.59 1134 2.91 24 20 3.61 1.69 0.

47 1112 3.36 1.58 0.47 1166 3.12 24 22 3.82 1.34 0.35 1155 3.57 1.25 0.

35 1221 3.33 24 24 4.03 0.93 0.23 1199 3.78 0.87 0.23 1254 3.57 25 18 3.43 2.  
16 0.63 1068 3.15 1.98 0.63 1134 2.  
91 25 20 3.61 1.84 0.51 1112 3.36 1.

71 0.51 1166 3.12 25 22 3.82 1.49 0.39 1155 3.57 1.39 0.39 1221 3.33 25 24 4.

03 1.09 0.27 1199 3.78 1.02 0.27 1254 3.57 26 18 3.43 2.30 0.67 1068 3.  
15 2.11 0.67 1134 2.91 26 20 3.61 1.  
98 0.55 1112 3.36 1.85 0.55 1166 3.

12 26 22 3.82 1.64 0.43 1155 3.57 1.54 0.43 1221 3.33 26 24 4.03 1.25 0.

31 1199 3.78 1.17 0.31 1254 3.57 26 26 4.24 0.80 0.19 1243 3.99 0.76 0.  
19 1297 3.75 27 18 3.43 2.44 0.71 1068 3.  
15 2.24 0.71 1134 2.91 27 20 3.61 2.

13 0.59 1112 3.36 1.98 0.59 1166 3.12 27 22 3.82 1.79 0.47 1155 3.57 1.

68 0.47 1221 3.33 27 24 4.03 1.41 0.35 1199 3.78 1.32 0.35 1254 3.57 27 26 4.  
24 0.97 0.23 1243 3.99 0.92 0.  
23 1297 3.75 28 18 3.43 2.57 0.75 1068 3.

15 2.36 0.75 1134 2.91 28 20 3.61 2.27 0.63 1112 3.36 2.12 0.63 1166 3.

12 28 22 3.82 1.95 0.51 1155 3.57 1.82 0.51 1221 3.33 28 24 4.03 1.57 0.  
39 1199 3.78 1.47 0.39 1254 3.57 28 26 4.  
24 1.14 0.27 1243 3.99 1.08 0.

27 1297 3.75 29 18 3.43 2.71 0.79 1068 3.15 2.49 0.79 1134 2.91 29 20 3.61 2.

42 0.67 1112 3.36 2.25 0.67 1166 3.12 29 22 3.82 2.10 0.55 1155 3.57 1.  
96 0.55 1221 3.33 29 24 4.03 1.73 0.  
43 1199 3.78 1.63 0.43 1254 3.57 29 26 4.

24 1.31 0.31 1243 3.99 1.24 0.31 1297 3.75 30 18 3.43 2.85 0.83 1068 3.

15 2.61 0.83 1134 2.91 30 20 3.61 2.56 0.71 1112 3.36 2.39 0.71 1166 3.  
12 30 22 3.82 2.25 0.59 1155 3.57 2.  
11 0.59 1221 3.33 30 24 4.03 1.89 0.

47 1199 3.78 1.78 0.47 1254 3.57 30 26 4.24 1.48 0.35 1243 3.99 1.40 0.

35 1297 3.75 31 18 3.43 2.98 0.87 1068 3.15 2.74 0.87 1134 2.91 31 20 3.61 2.  
70 0.75 1112 3.36 2.52 0.75 1166 3.  
12 31 22 3.82 2.40 0.63 1155 3.57 2.

25 0.63 1221 3.33 31 24 4.03 2.05 0.51 1199 3.78 1.93 0.51 1254 3.57 31 26 4.

24 1.65 0.39 1243 3.99 1.56 0.39 1297 3.75 32 18 3.43 3.12 0.91 1068 3.  
15 2.87 0.91 1134 2.91 32 20 3.61 2.

85 0.79 1112 3.36 2.65 0.79 1166 3.  
12 32 22 3.82 2.56 0.67 1155 3.57 2.39 0.67 1221 3.33 32 24 4.03 2.21 0.

55 1199 3.78 2.08 0.55 1254 3.57 32 26 4.24 1.82 0.43 1243 3.99 1.72 0.

43 1297 3.75 NOTE Q : Total capacity (kW) SHF : Sensible heat factor SHC : Sensible heat capacity (kW) INPUT : Total power input (W) 15 46 SHC SHF  
INPUT 1.37 0.47 1177 1.09 0.

35 1232 1.48 0.51 1177 1.21 0.39 1232 0.

90 0.27 1264 1.60 0.55 1177 1.34 0.43 1232 1.03 0.31 1264 1.71 0.59 1177 1.

46 0.47 1232 1.16 0.35 1264 0.82 0.23 1308 1.83 0.63 1177 1.59 0.51 1232 1.

30 0.39 1264 0.96 0.27 1308 1.95 0.

67 1177 1.71 0.55 1232 1.43 0.43 1264 1.

11 0.31 1308 0.71 0.19 1352 2.06 0.71 1177 1.84 0.59 1232 1.56 0.47 1264 1.

25 0.35 1308 0.86 0.23 1352 2.18 0.75 1177 1.96 0.63 1232 1.70 0.51 1264 1.

39 0.39 1308 1.01 0.27 1352 2.29 0.

79 1177 2.09 0.67 1232 1.83 0.55 1264 1.

54 0.43 1308 1.16 0.31 1352 2.41 0.83 1177 2.21 0.71 1232 1.96 0.59 1264 1.

68 0.47 1308 1.31 0.35 1352 2.53 0.87 1177 2.34 0.75 1232 2.09 0.63 1264 1.

82 0.51 1308 1.46 0.39 1352 2.64 0.

91 1177 2.46 0.79 1232 2.23 0.67 1264 1.

96 0.55 1308 1.61 0.43 1352 DB : Dry-bulb temperature WB : Wet-bulb temperature PERFORMANCE DATA COOLING operation Rated frequency 75Hz  
MFZ-KA50VA - E1 / SUZ-KA50VA.TH, SUZ-KA50VAH.TH CAPACITY : 4.8(kW) SHF : 0.63 INPUT : 1550(W) INDOOR INDOOR DB(:) WB(:) 21 21 22 22  
22 23 23 23 24 24 24 24 25 25 25 25 26 26 26 26 26 27 27 27 27 27 28 28 28 28 28 29 29 29 29 29 30 30 30 30 30 31 31 31 31 31 31 31 31 32 32 32 32 32 NOTE 21 Q  
SHC SHF INPUT 18 5.64 2.54 0.

45 1240 20 5.88 1.94 0.33 1302 18 5.64 2.76 0.49 1240 20 5.88 2.18 0.37 1302 22 6.

12 1.53 0.25 1349 18 5.64 2.99 0.

53 1240 20 5.88 2.41 0.41 1302 22 6.12 1.

77 0.29 1349 18 5.64 3.21 0.57 1240 20 5.88 2.65 0.45 1302 22 6.12 2.02 0.

33 1349 24 6.43 1.35 0.21 1411 18 5.64 3.44 0.61 1240 20 5.88 2.88 0.49 1302 22 6.

12 2.26 0.37 1349 24 6.43 1.61 0.

25 1411 18 5.64 3.67 0.65 1240 20 5.88 3.

12 0.53 1302 22 6.12 2.51 0.41 1349 24 6.43 1.87 0.29 1411 26 6.62 1.13 0.

17 1488 18 5.64 3.89 0.69 1240 20 5.88 3.35 0.57 1302 22 6.12 2.75 0.45 1349 24 6.

43 2.12 0.33 1411 26 6.62 1.39 0.

21 1488 18 5.64 4.12 0.73 1240 20 5.88 3.

59 0.61 1302 22 6.12 3.00 0.49 1349 24 6.43 2.38 0.37 1411 26 6.62 1.66 0.

25 1488 18 5.64 4.34 0.77 1240 20 5.88 3.82 0.



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65 1302 22 6.12 3.24 0.53 1349 24 6.  
43 2.64 0.41 1411 26 6.62 1.92 0.  
29 1488 18 5.64 4.57 0.81 1240 20 5.88 4.  
06 0.69 1302 22 6.12 3.49 0.57 1349 24 6.43 2.89 0.45 1411 26 6.62 2.19 0.  
33 1488 18 5.64 4.79 0.85 1240 20 5.88 4.29 0.73 1302 22 6.12 3.73 0.61 1349 24 6.  
43 3.15 0.49 1411 26 6.62 2.45 0.  
37 1488 18 5.64 5.02 0.89 1240 20 5.88 4.  
53 0.77 1302 22 6.12 3.98 0.65 1349 24 6.43 3.41 0.53 1411 26 6.62 2.72 0.

41 1488 Q : Total capacity (kW) SHC : Sensible heat capacity (kW) OUTDOOR DB(:) 25 27 30 Q SHC SHF INPUT Q SHC SHF INPUT Q SHC SHF INPUT

5.40 2.43 0.45 1302 5.18 2.33 0.45 1364 4.99 2.25 0.45 1426 5.  
64 1.86 0.33 1380 5.47 1.81 0.  
33 1411 5.28 1.74 0.33 1473 5.40 2.  
65 0.49 1302 5.18 2.54 0.49 1364 4.99 2.45 0.49 1426 5.64 2.09 0.  
37 1380 5.47 2.02 0.37 1411 5.28 1.95 0.37 1473 5.90 1.48 0.25 1434 5.  
76 1.44 0.25 1473 5.52 1.38 0.  
25 1535 5.40 2.86 0.53 1302 5.18 2.  
75 0.53 1364 4.99 2.65 0.53 1426 5.64 2.31 0.41 1380 5.47 2.24 0.  
41 1411 5.28 2.16 0.41 1473 5.90 1.71 0.29 1434 5.76 1.67 0.29 1473 5.  
52 1.60 0.29 1535 5.40 3.08 0.  
57 1302 5.18 2.95 0.57 1364 4.99 2.  
85 0.57 1426 5.64 2.54 0.45 1380 5.47 2.46 0.45 1411 5.28 2.38 0.  
45 1473 5.90 1.95 0.33 1434 5.76 1.90 0.33 1473 5.52 1.82 0.33 1535 6.  
19 1.30 0.21 1488 6.05 1.27 0.  
21 1535 5.86 1.23 0.21 1612 5.40 3.  
29 0.61 1302 5.18 3.16 0.61 1364 4.99 3.05 0.61 1426 5.64 2.76 0.  
49 1380 5.47 2.68 0.49 1411 5.28 2.59 0.49 1473 5.90 2.18 0.37 1434 5.  
76 2.13 0.37 1473 5.52 2.04 0.  
37 1535 6.19 1.55 0.25 1488 6.05 1.  
51 0.25 1535 5.86 1.46 0.25 1612 5.40 3.51 0.65 1302 5.18 3.37 0.  
65 1364 4.99 3.24 0.65 1426 5.64 2.99 0.53 1380 5.47 2.90 0.53 1411 5.  
28 2.80 0.53 1473 5.90 2.42 0.  
41 1434 5.76 2.36 0.41 1473 5.52 2.  
26 0.41 1535 6.19 1.80 0.29 1488 6.05 1.75 0.29 1535 5.86 1.70 0.  
29 1612 6.43 1.09 0.17 1566 6.34 1.08 0.17 1612 6.14 1.04 0.17 1659 5.  
40 3.73 0.69 1302 5.18 3.58 0.  
69 1364 4.99 3.44 0.69 1426 5.64 3.  
21 0.57 1380 5.47 3.12 0.57 1411 5.28 3.01 0.57 1473 5.90 2.66 0.  
45 1434 5.76 2.59 0.45 1473 5.52 2.48 0.45 1535 6.19 2.04 0.33 1488 6.  
05 2.00 0.33 1535 5.86 1.93 0.  
33 1612 6.43 1.35 0.21 1566 6.34 1.  
33 0.21 1612 6.14 1.29 0.21 1659 5.40 3.94 0.73 1302 5.18 3.78 0.  
73 1364 4.99 3.64 0.73 1426 5.64 3.44 0.61 1380 5.47 3.34 0.61 1411 5.  
28 3.22 0.61 1473 5.90 2.89 0.  
49 1434 5.76 2.82 0.49 1473 5.52 2.  
70 0.49 1535 6.19 2.29 0.37 1488 6.05 2.24 0.37 1535 5.86 2.17 0.  
37 1612 6.43 1.61 0.25 1566 6.34 1.58 0.25 1612 6.14 1.54 0.25 1659 5.  
40 4.16 0.77 1302 5.18 3.99 0.  
77 1364 4.99 3.84 0.77 1426 5.64 3.  
67 0.65 1380 5.47 3.56 0.65 1411 5.28 3.43 0.65 1473 5.90 3.13 0.  
53 1434 5.76 3.05 0.53 1473 5.52 2.93 0.53 1535 6.19 2.54 0.41 1488 6.  
05 2.48 0.41 1535 5.86 2.40 0.  
41 1612 6.43 1.87 0.29 1566 6.34 1.  
84 0.29 1612 6.14 1.78 0.29 1659 5.40 4.37 0.81 1302 5.18 4.20 0.  
81 1364 4.99 4.04 0.81 1426 5.64 3.89 0.69 1380 5.47 3.78 0.69 1411 5.

28 3.64 0.69 1473 5.90 3.37 0.  
57 1434 5.76 3.28 0.57 1473 5.52 3.  
15 0.57 1535 6.19 2.79 0.45 1488 6.05 2.72 0.45 1535 5.86 2.64 0.

45 1612 6.43 2.12 0.33 1566 6.34 2.09 0.33 1612 6.14 2.03 0.33 1659 5.  
40 4.59 0.85 1302 5.18 4.41 0.  
85 1364 4.99 4.24 0.85 1426 5.64 4.  
12 0.73 1380 5.47 3.99 0.73 1411 5.28 3.85 0.73 1473 5.90 3.60 0.

61 1434 5.76 3.51 0.61 1473 5.52 3.37 0.61 1535 6.19 3.03 0.49 1488 6.  
05 2.96 0.49 1535 5.86 2.87 0.  
49 1612 6.43 2.38 0.37 1566 6.34 2.  
34 0.37 1612 6.14 2.27 0.37 1659 5.40 4.81 0.89 1302 5.18 4.61 0.

89 1364 4.99 4.44 0.89 1426 5.64 4.34 0.77 1380 5.47 4.21 0.77 1411 5.  
28 4.07 0.77 1473 5.90 3.84 0.  
65 1434 5.76 3.74 0.65 1473 5.52 3.  
59 0.65 1535 6.19 3.28 0.53 1488 6.05 3.21 0.53 1535 5.86 3.10 0.

53 1612 6.43 2.64 0.41 1566 6.34 2.60 0.41 1612 6.14 2.52 0.41 1659 SHF : Sensible heat factor DB : Dry-bulb temperature INPUT : Total power input (W)  
WB : Wet-bulb temperature 16 PERFORMANCE DATA COOLING operation Rated frequency 75Hz MFZ-KA50VA - EI / SUZ-KA50VA.  
TH, SUZ-KA50VAH.TH CAPACITY : 4.8(kW) SHF : 0.63 INPUT : 1550(W) OUTDOOR DB(:) 35 40 INDOOR INDOOR DB (: ) WB (: ) Q SHC SHF INPUT  
Q SHC SHF INPUT Q 21 18 4.70 2.

12 0.45 1519 4.32 1.94 0.45 1612 3.  
98 21 20 4.94 1.63 0.33 1581 4.61 1.52 0.33 1659 4.27 22 18 4.70 2.30 0.

49 1519 4.32 2.12 0.49 1612 3.98 22 20 4.94 1.83 0.37 1581 4.61 1.70 0.  
37 1659 4.27 22 22 5.23 1.31 0.25 1643 4.  
90 1.22 0.25 1736 4.56 23 18 4.70 2.  
49 0.53 1519 4.32 2.29 0.53 1612 3.98 23 20 4.94 2.03 0.41 1581 4.61 1.

89 0.41 1659 4.27 23 22 5.23 1.52 0.29 1643 4.90 1.42 0.29 1736 4.56 24 18 4.  
70 2.68 0.57 1519 4.32 2.46 0.  
57 1612 3.98 24 20 4.94 2.22 0.45 1581 4.  
61 2.07 0.45 1659 4.27 24 22 5.23 1.73 0.33 1643 4.90 1.62 0.33 1736 4.

56 24 24 5.52 1.16 0.21 1705 5.18 1.09 0.21 1783 4.90 25 18 4.70 2.87 0.  
61 1519 4.32 2.64 0.61 1612 3.98 25 20 4.  
94 2.42 0.49 1581 4.61 2.26 0.  
49 1659 4.27 25 22 5.23 1.94 0.37 1643 4.90 1.81 0.37 1736 4.56 25 24 5.52 1.

38 0.25 1705 5.18 1.30 0.25 1783 4.90 26 18 4.70 3.06 0.65 1519 4.32 2.  
81 0.65 1612 3.98 26 20 4.94 2.62 0.  
53 1581 4.61 2.44 0.53 1659 4.27 26 22 5.  
23 2.15 0.41 1643 4.90 2.01 0.41 1736 4.56 26 24 5.52 1.60 0.29 1705 5.

18 1.50 0.29 1783 4.90 26 26 5.81 0.99 0.17 1767 5.47 0.93 0.17 1845 5.  
14 27 18 4.70 3.25 0.69 1519 4.32 2.  
98 0.69 1612 3.98 27 20 4.94 2.82 0.  
57 1581 4.61 2.63 0.57 1659 4.27 27 22 5.23 2.35 0.45 1643 4.90 2.20 0.

45 1736 4.56 27 24 5.52 1.82 0.33 1705 5.18 1.71 0.33 1783 4.90 27 26 5.81 1.  
22 0.21 1767 5.47 1.15 0.21 1845 5.  
14 28 18 4.70 3.43 0.73 1519 4.32 3.  
15 0.73 1612 3.98 28 20 4.94 3.02 0.61 1581 4.61 2.81 0.61 1659 4.27 28 22 5.

23 2.56 0.49 1643 4.90 2.40 0.49 1736 4.56 28 24 5.52 2.04 0.37 1705 5.  
18 1.92 0.37 1783 4.90 28 26 5.81 1.  
45 0.25 1767 5.47 1.37 0.25 1845 5.  
14 29 18 4.70 3.62 0.77 1519 4.32 3.33 0.77 1612 3.98 29 20 4.94 3.21 0.

65 1581 4.61 3.00 0.65 1659 4.27 29 22 5.23 2.77 0.53 1643 4.90 2.59 0.  
53 1736 4.56 29 24 5.52 2.26 0.41 1705 5.  
18 2.13 0.41 1783 4.90 29 26 5.81 1.  
68 0.29 1767 5.47 1.59 0.29 1845 5.14 30 18 4.70 3.81 0.81 1519 4.32 3.

50 0.81 1612 3.98 30 20 4.94 3.41 0.69 1581 4.61 3.18 0.69 1659 4.27 30 22 5.

23 2.98 0.57 1643 4.90 2.79 0.  
57 1736 4.56 30 24 5.52 2.48 0.45 1705 5.  
18 2.33 0.45 1783 4.90 30 26 5.81 1.92 0.33 1767 5.47 1.81 0.33 1845 5.

14 31 18 4.70 4.00 0.85 1519 4.32 3.67 0.85 1612 3.98 31 20 4.94 3.61 0.  
73 1581 4.61 3.36 0.73 1659 4.27 31 22 5.  
23 3.19 0.61 1643 4.90 2.99 0.  
61 1736 4.56 31 24 5.52 2.70 0.49 1705 5.18 2.54 0.49 1783 4.90 31 26 5.81 2.

15 0.37 1767 5.47 2.02 0.37 1845 5.14 32 18 4.70 4.19 0.89 1519 4.32 3.  
84 0.89 1612 3.98 32 20 4.94 3.81 0.  
77 1581 4.61 3.55 0.77 1659 4.27 32 22 5.  
23 3.40 0.65 1643 4.90 3.18 0.65 1736 4.56 32 24 5.52 2.93 0.53 1705 5.

18 2.75 0.53 1783 4.90 32 26 5.81 2.38 0.41 1767 5.47 2.24 0.41 1845 5.

14 NOTE Q : Total capacity (kW) SHF : Sensible heat factor SHC : Sensible heat capacity (kW) INPUT : Total power input (W) 17 46 SHC SHF INPUT 1.79  
0.45 1674 1.41 0.33 1752 1.

95 0.49 1674 1.58 0.37 1752 1.14 0.  
25 1798 2.11 0.53 1674 1.75 0.41 1752 1.32 0.29 1798 2.27 0.57 1674 1.92 0.

45 1752 1.50 0.33 1798 1.03 0.21 1860 2.43 0.61 1674 2.09 0.49 1752 1.69 0.  
37 1798 1.22 0.25 1860 2.59 0.65 1674 2.  
26 0.53 1752 1.87 0.41 1798 1.42 0.  
29 1860 0.87 0.17 1922 2.75 0.69 1674 2.44 0.57 1752 2.05 0.45 1798 1.62 0.

33 1860 1.08 0.21 1922 2.91 0.73 1674 2.61 0.61 1752 2.23 0.49 1798 1.81 0.  
37 1860 1.28 0.25 1922 3.07 0.77 1674 2.  
78 0.65 1752 2.42 0.53 1798 2.01 0.  
41 1860 1.49 0.29 1922 3.23 0.81 1674 2.95 0.69 1752 2.60 0.57 1798 2.20 0.

45 1860 1.69 0.33 1922 3.39 0.85 1674 3.12 0.73 1752 2.78 0.61 1798 2.40 0.  
49 1860 1.90 0.37 1922 3.55 0.89 1674 3.  
29 0.77 1752 2.96 0.65 1798 2.59 0.

53 1860 2.11 0.41 1922 DB : Dry-bulb temperature WB : Wet-bulb temperature PERFORMANCE DATA HEATING operation MFZ-KA25VA- E1 / SUZ-KA25VA(H).TH CAPACITY : 3.4(kW) INPUT : 835(W) Rated frequency 80Hz OUTDOOR WB(:) INDOOR -10 -5 0 5 10 15 20 DB(:) Q INPUT Q INPUT Q  
INPUT Q INPUT Q INPUT Q INPUT Q INPUT Q INPUT 15 2.14 534 2.58 651 3.03 735 3.47 793 3.91 8.

43 4.32 868 4.76 885 21 2.04 585 2.45 693 2.89 868 3.30 827 3.74 868 4.15 893 4.57 927 26 1.  
84 626 2.28 735 2.69 810 3.13 868 3.57 910 3.  
98 935 4.42 960 MFZ-KA35VA- E1 / SUZ-KA35VA(H).TH CAPACITY : 4.



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Insert the negative pole of the batteries first.

Check if the polarity of the batteries are correct. RESET button NOTE : 1. If RESET button is not pressed, the remote controller may not operate correctly. 2.

This remote controller has a circuit to automatically reset the microcomputer when batteries are replaced.

This function is equipped to prevent the microcomputer from malfunctioning due to the voltage drop caused by the battery replacement. INFORMATION FOR MULTI SYSTEM AIR CONDITIONER OUTDOOR UNIT : MXZ series Multi system air conditioner can connect two or more indoor units with one outdoor unit. Unit won't operate in case the total capacity of indoor units exceeds the capacity of outdoor units. Do not connect indoor units beyond the outdoor unit capacity. Operation indicator lamp flashes as shown in the figure below.

When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the other for heating, the operation mode of the indoor unit that operates earlier is selected. The other indoor units will start the operation later cannot operate, indicating as shown in the figure below.

In this case, please set all the indoor units to the same operation mode. OPERATION INDICATOR Lighted (Green) Blinking (Green or Orange) Not lighted

When indoor units start operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. 10 minutes) to blow out the warm air. In heating operation, even though the indoor unit is not in operation, the room may get warm or the sound of refrigerant flowing may be heard. This is not a malfunction. The refrigerant continuously into it causes this. 21 Blinking green : Standby for normal operation Blinking orange : Standby for i-save operation

9-2. Failure mode recall function Outline of the function This air conditioner can memorize the abnormal condition which has occurred once.

Even though OPERATION INDICATOR lamp indication listed on the troubleshooting check table (9-4.) disappears, the memorized failure details can be recalled. This mode is very useful when the unit needs to be repaired for the abnormality which doesn't recur. 1. Flow chart of failure mode recall function for the indoor/outdoor unit Operational procedure The cause of abnormality cannot be found because the abnormality doesn't recur. Setting up the failure mode recall function Turn ON the power supply. 1 While pressing both OPERATION SELECT button and TOO COOL button on the remote controller at the same time, press RESET button. 2 First, release RESET button. And release the other two buttons after all LCD except the set temperature in operation display section of the remote controller is displayed after 3 seconds. 1 While pressing both OPERATION SELECT button and TOO COOL button on the remote controller at the same time, press RESET button.

2 First, release RESET button. And release the other two buttons after all LCD except the set temperature in operation display section of the remote controller is displayed after 3 seconds. Press OPERATE/STOP(ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. W 1 W 1. Regardless of normal or abnormal, a short beep is emitted once as the signal is received.

Does the left lamp of OPERATION INDICATOR lamp on the indoor unit blink at the interval of 0.5 seconds? Blinks: Either indoor or outdoor unit is abnormal. Beep are emitted at the same timing as the blinking of the left lamp of OPERATION INDICATOR lamp. W 2 Yes (Blinks) Judgment of indoor/outdoor abnormality Before blinking, does the left lamp of OPERATION INDICATOR lamp stay ON for 3 seconds? Stays ON for 3 seconds (without beep): The outdoor unit is abnormal. No The indoor unit is abnormal.

Check the blinking pattern, and confirm the abnormal point with the indoor unit failure mode table (9-2. 2.). Make sure to check at least two consecutive blinking cycles. W 2 Releasing the failure mode recall function No (OFF) Indoor unit is normal. But the outdoor unit might be abnormal because there are some abnormalities that are not memorized in the indoor unit. Confirm if outdoor unit is abnormal according to the flow chart of the detailed outdoor unit failure mode recall function. Yes The outdoor unit is abnormal. Check the blinking pattern, and confirm the abnormal point with the outdoor unit failure mode table (Refer to outdoor unit service manual). Make sure to check at least two consecutive blinking cycles.

W 3 Release the failure mode recall function by the following procedures. (AorBC) AWith the remote controller headed towards the indoor unit, press any button that is not used in this failure mode recall function (e.g. TIMER button) . BTurn OFF the power supply and turn ON it again. CPress RESET button of the remote controller. As for outdoor units, refer to service manual OC322, OB377 or OC316. Repair the defective parts. Deleting the abnormal memorized condition 1After repairing the unit, recall the failure mode again according to "Setting up the failure mode recall function" mentioned above. 2Press OPERATE/STOP(ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. W 1 3Press EMERGENCY OPERATION switch so that the memorized abnormal condition is deleted. 4Release the failure mode recall function according to "Releasing the failure mode recall function" mentioned above. Note1.Make sure to release the failure mode recall function once it's set up, otherwise the unit cannot operate properly. 2.

If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized. W 2. Blinking pattern when the indoor unit is abnormal: Blinking at 0.52.5-second OFF second interval ON OFF Beeps Repeated cycle Beeps Repeated cycle Blinking at 0.5second interval Blinking at 0.52.5-second OFF second interval W 3.Blinking pattern when the outdoor unit is abnormal: Blinking at 0.52.5-second OFF 3-second ON second interval ON OFF No beep Repeated cycle Beeps 2.5-second OFF 3-second ON No beep Repeated cycle Beeps Repeated cycle 22 2. Indoor unit failure mode table NOTE:Blinking patterns of this mode differs from the ones of Troubleshooting check table(9-4.). Left lamp of Right lamp of OPERATION INDICATOR lamp INDICATOR lamp Not lighted 1-time flash every 0.

5-second 2-time flash 2.5-second OFF 3-time flash 2.5-second OFF Not lighted Abnormal point (Failure mode) Normal Room temperature thermistor Indoor coil thermistor (Main 1, 2 and sub) Check point When the room temperature thermistor short or open circuit is detected every 8 seconds during operation. When the indoor coil thermistor short or open circuit is detected every 8 seconds during operation. Countermeasure Refer to the characteristics of the room temperature thermistor (9-7.). Refer to the characteristic of the main 1,2 indoor coil thermistor and the sub indoor coil thermistor (9-7).



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) . Not lighted Not lighted Not lighted Serial signal error When the serial signal from the outdoor unit is Refer to 9-6.D "How to check miswiring not received for a maximum of 6 minutes. and serial signal error". When the rotational frequency feedback signal is not emitted during 12-second the indoor fan operation. Refer to 9-6 A-1 "Check of indoor fan motor (Upper)" Refer to 9-6 A-2 "Check of indoor fan motor (Lower)" When it cannot be read properly data in the nonvolatile memory of the indoor electronic control P.C. board.

When the indoor coil thermistor short or open circuit is detected every 8 seconds during operation. When the damper is not located at the designated position. Not lighted 11-time flash 2.5-second OFF 1-time flash every 0.5-second 12-time flash 2.

5-second OFF 13-time flash 2.5-second OFF 14-time flash 2.5-second OFF Indoor fan motor (Upper) Indoor fan motor (Lower) Not lighted Indoor control system Indoor coil thermistor (Main 3) Damper Replace the indoor electronic control P.C. board. Replace to the characteristic of the main 3 indoor coil thermistor (9.7.). Not lighted Not lighted Refer to 9-6.E "Check of damper".

23 9-3. Instruction of troubleshooting Start Indoor unit operates. Outdoor unit doesn't operate. Indoor unit operates. Outdoor unit doesn't operate normally. Indoor unit doesn't receive the signal from remote controller. OPERATION INDICATOR lamp on the indoor unit is flashing on and off. Outdoor unit operates in only Test Run operation. w1 Outdoor unit doesn't operate even in Test Run operation. w1 Unit doesn't operate normal operation in COOL or HEAT mode. Indoor unit operates, when EMERGENCY OPERATION switch is pressed. Indoor unit doesn't operate, when EMERGENCY OPERATION switch is pressed.

If blinking of OPERATION INDICATOR lamp cannot be checked, it can be checked with failure mode recall function. w1 "Test Run operation" means the operation within 30 minutes after EMERGENCY OPERATION switch is pressed. Check room temperature thermistor.

Refer to 9-7. "Test point diagram and voltage". Refer to "How to check inverter/ compressor". Refer to "Check of R.V. coil". Refer to 9-6.B "Check of remote controller and receiver P.C. board". 1. Check indoor / outdoor connecting wire. (Check if the power is supplied to the indoor unit.) 2. Refer to 9-6.

C "Check of indoor electronic control P.C. board and indoor fan motor". As for outdoor units, refer to service manual OC322, OB377 or OC316. Left lamp Flash on and off at 0.5-second intervals Cause: Indoor/ Outdoor unit · Mis-wiring or trouble of serial signal Left lamp 2-time flash Cause: Indoor unit · Trouble of room temperature/ indoor coil thermistor Left lamp 3-time flash Cause: Indoor unit · Trouble of indoor fan motor Left lamp 4-time flash Cause: Indoor unit · Trouble of indoor unit control system Left lamp 5-time flash Cause: Outdoor unit · Outdoor power system abnormality Left lamp 6-time flash Cause: Outdoor unit · Trouble of thermistor in outdoor unit Left lamp 7-time flash Cause: Outdoor unit · Trouble of outdoor control system Left lamp 14-time flash Cause: Outdoor unit · Other abnormality Left lamp 15-time flash Cause: Indoor unit · Trouble of damper Refer to 9-6. D "How to check the mis-wiring and serial signal error (when outdoor unit doesn't work)". Check room temperature thermistor and indoor coil thermistor. Refer to 9-7. "Test point diagram and voltage".

Refer to 9-6. A-1, A-2 "Check of indoor fan motor". Replace the indoor electronic control P.C. board.

Refer to "How to check the inverter/ compressor". Refer to "Check of outdoor thermistors". Replace the inverter P.C. board or the outdoor electronic control P.

C. board. Check "Flow chart of the detailed outdoor unit failure mode recall function." Refer to 9-6. E "Check of damper". 24 9-4. Troubleshooting check table OPERATION INDICATOR Lighted Blinking Not lighted · Flashing of OPERATION INDICATOR lamp (left-hand side lamp) indicates abnormalities. NOTE : Before taking measures, make sure that the symptom reappears for accurate troubleshooting. @@@@board or of the outdoor electronic control P.C.

board. · Check the blinking pattern of the LED on the inverter P.C. board or the outdoor electronic control P.C. @@@@4-time flash Indoor unit and outdoor unit do not operate. @@board. 5 · Replace the indoor electronic control P.C. board.

2.5-second OFF Outdoor power system Left lamp flashes. 5-time flash Indoor unit and outdoor unit do not operate. 2.5-second OFF Left lamp flashes. @@7-time flash Indoor unit and outdoor unit do not operate. Indoor unit and outdoor unit do not operate. Indoor unit and outdoor unit do not operate. @@board or of the outdoor electronic control P.C.

board. · Replace the inverter P.C. board or the outdoor electronic control P.C. board. Refer to service manual OC322, OB377 or OC316. @@Refer to service manual OC322, OB377 or OC316. Indoor unit and outdoor unit do not operate. @@ · Refer to "Check of inverter/ compressor".

Refer to service manual OC322, OB377 or OC316. Check the stop valve. · Refer to "Check of outdoor thermistor". @@14-time flash 9 Other abnormality An abnormality other than above mentioned is detected. 10 Indoor damper 2.5-second OFF Left lamp flashes. 15-time flash When the damper is not located at the designated position. · Refer to 9-6.E "Check of damper". 2.

5-second OFF NOTE : When the indoor unit has started operation and the above failures are detected (the first detection after the power ON), the indoor electronic control P.C. board turns OFF the indoor fan motor with OPERATION INDICATOR lamp flashing. 25 OPERATION INDICATOR Lighted Blinking Not lighted · Flashing of OPERATION INDICATOR lamp (right-hand side lamp) indicates abnormality. · OPERATION INDICATOR lamp (left-hand side lamp) is lighted.

No. Abnormal point MXZ type Operation mode setting Operation indicator lamp Right lamp flash Symptom Outdoor unit operates but indoor unit does not operate. Check point When the operation mode of the each indoor unit is differently set to COOL(includes DRY) and HEAT at the same time, the operation mode of the indoor unit that has operated at first has the priority. Countermeasure · Unify the operation mode. Refer to service manual OB377.

I 2.5-second OFF NOTE : When the indoor unit has started operation and the above failures are detected (the first detection after the power ON), the indoor electronic control P.C. board turns OFF the indoor fan motor with OPERATION INDICATOR lamp flashing. 9-5. Trouble judgement criteria of main parts MFZ-KA25VA - E1 Part name Room temperature thermistor (RT11) Indoor coil thermistor (RT12(MAIN), RT13(SUB)) Indoor fan motor (Upper) (MF1) MFZ-KA35VA - E1 MFZ-KA50VA - E1 Check method and criteria Figure Measure the resistance with a tester.



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(Part temperature 10°C ~ 30°C) Normal 8 k" ~ 20 k" Abnormal Open or short-circuit Check 9-6. A-1. Indoor fan motor (Lower) (MF2) Damper lock motor Right (ML1) Check 9-6. A-2.

Measure the resistance between the terminals with a tester. @@@@Indoor fan does not operate. A -1. @@@@w 1) Measure the voltage between CN211 1(+) and 3(-). 2) Measure the voltage between CN211 5(+) and 3(-). @@@@No (Changed) Replace the indoor electronic control P.C. @@@@Indoor fan does not operate. A -2. @@@@w 1) Measure the voltage between CN212 1(+) and 3(-). @@@@board is normal. Is there 311V DC between CN211 1 (+) and 3 (-), and does the voltage between CN212 5(+) and 3(-) rise to the range between 3 and 6VDC within 12 seconds after EMERGENCY OPERATION switch is pressed? @@@@ Measure the voltage between CN212 6(+) and 3(-) while the fan motor is rotating. Is 0V DC or 15V DC held unchanged? Yes (Unchanged) Replace the indoor fan motor. No (Changed) Replace the indoor electronic control P.C.

board. 28 Indoor unit operates by pressing EMERGENCY OPERATION switch, but does not operate with the remote controller. B Check of remote controller and receiver P.C. board wCheck if the remote controller is exclusive for this air conditioner.

Switch on the remote controller. Is the LCD display on the the remote controller visible? Yes Remove the batteries, then set them back and press RESET button. (Refer to 9-1.4.) Check if the unit operates with the remote controller. No (not clear) Replace the batteries. (Refer to 9-1.4.) Does the unit operate with the remote controller? Yes No Turn on a radio to AM and press switch on the remote controller. No OK Is noise heard from radio? Yes Are there any fluorescent lights of inverter or of rapid-start type within the range of 1m? Yes Replace the remote controller.

q Reinstall the unit away from lights. q Attach a filter on receiving part. Replace the indoor electronic control P.C. board. 29 The unit cannot be operated with the remote controller. Also, OPERATION INDICATOR lamp does not light up by pressing EMERGENCY OPERATION switch. C Check of indoor electronic control P.C. board and indoor fan motor Turn OFF the power supply.

@@@board and turn ON the power supply. Yes Does the unit operate with the remote controller? @@No Replace the varistor(NR11) and fuse(F11). Yes Are the varistor(NR11) burnt and the fuse(F11) blown? Turn OFF the power supply. @@board visually. Be sure to check both the fuse and the varistor in any case.

Is the fuse(F11) blown only? @@board). w1, w2 w1. @@w2. @@No Replace the fuse (F11) and the indoor fan motor. No No Turn OFF the power supply. Measure the resistance of the horizontal vane motor coil. Refer to 9-5. @@board. Turn OFF the power supply. @@@@board. Is the resistance approx. 4"? Yes No Replace the indoor electronic control P.C. board and the indoor fan motor. Indoor electronic control P.

C. @@@@Outdoor unit does not operate. D How to check mis-wiring and serial signal error Turn OFF the power supply. Is there rated voltage of 230V AC in the power supply? Yes Turn ON the power supply. No Check the wiring. No Check the power supply. Is there 230V AC between outdoor terminal block S1 and S2? Yes Press EMERGENCY OPERATION switch once. Does the left lamp of OPERATION INDICATOR lamp light up? <Confirmation of the power supply to the indoor unit> Yes Is the serial signal error indicated 6 minutes later? Yes No Is there any mis-wiring, poor contact, or wire disconnection of the indoor/outdoor connecting wire? No No Yes Make them sure. A Turn OFF the power supply. Check once again if the indoor/outdoor connecting wire is not wrongly connected.

B Short-circuit the outdoor terminal block S2 and S3. W1 Turn ON the power supply of the outdoor unit. W1. Mis-wiring may damage indoor electronic control P.C.

board during operation. Be sure to confirm the wiring is correct before the operation starts. Inverter P.C.board (Parts side) LED In 3 minutes after turning ON the power supply of the outdoor unit, does the LED on the inverter P.

C. board repeat quick blinking "3.6-second-OFF and 0.8-second-ON"? Be sure to check above in 3 minutes after turning ON. After 3 minutes, LED blinks 6 times. When the inverter P.C. board is normal, LED also blinks 6 times after 3 minutes. No (Lighting) Replace the inverter P.C.

board. W2 W2 Be careful to the residual voltage of smoothing capacitor. Blinking Yes A · Turn OFF inverter-controlled lighting equipment. · Turn OFF the power supply and then turn ON it again. · Press EMERGENCY OPERATION switch. · Reinstall either the unit or the light away No from the other. · Attach a filter on receiving section of the indoor unit. Remove the short-circuit between outdoor terminal block S2 and S3. Is there amplitude of 10 to 20V DC between outdoor terminal block S2 and S3? <Confirmation of serial signal> No Is there any error of the indoor/outdoor connecting wire, such as the damage of the wire, intermediate connection, poor contact to the terminal block? No Yes Replace the indoor/outdoor connecting. Yes Is there 230V AC between outdoor terminal block S1 and S2? <Confirmation of power voltage> Yes Is the serial signal error indicated 6 minutes later? No Is there any error of the indoor/outdoor connecting wire, such as the damage of the wire, intermediate connection, poor contact to the terminal block? No Yes Replace the indoor/outdoor connecting.

Replace the indoor electronic control P.C. board. Be sure to release the failure-mode recall function after checking. As for outdoor units, refer to service manual OC322, OB377 or OC316.

Yes B 31 When the left lamp of OPERATION INDICATOR lamp flashes 15-time. Indoor unit and outdoor unit do not operate. E Check of damper After performing the check, make sure to release the failure mode recall function. Turn OFF the power supply. Is there anything that interferes the opening or closing movement of the damper? No Turn ON the power supply.

Yes Remove the object. < Set up the failure mode recall function > Turn ON the power supply. 1 While pressing both OPERATION SELECT button and TOO COOL button on the remote controller at the same time, press RESET button. 2 First, release RESET button. And release the other two buttons after all LCD except the set temperature in operation display section of the remote controller is displayed after 3 seconds. 1 While pressing both OPERATION SELECT button and TOO COOL button on the remote controller at the same time, press RESET button. 2 First, release RESET button. And release the other two buttons after all LCD except the set temperature in operation display section of the remote controller is displayed after 3 seconds. Press OPERATE/STOP(ON/OFF) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit.



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